



PATENT  
Docket No. 235.00550101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|  |   |                 |         |
|--|---|-----------------|---------|
| Applicant(s): Altman et al.                  | ) | Group Art Unit: | 1752    |
|  | ) |                 |         |
| Serial No.: 10/579,248                       | ) | Examiner:       | Unknown |
| U.S. National Stage of PCT/US2004/037896)    | ) |                 |         |
| International Filing Date: 12 November 2004) | ) |                 |         |

For: BIOTIN-FACILITATED TRANSPORT IN GRAM NEGATIVE BACTERIA

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Pursuant to MPEP § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 form(s) is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 form(s), marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants also wish to bring the Examiner's attention to any pending U.S. Application cited in the 1449 form(s) submitted herewith, as well as any documents, Office Actions that may include rejections of similar claims, and any provisional U.S. patent applications referenced in the pending U.S. applications or in their file wrappers.

**Information Disclosure Statement**

Page 2 of 2

Applicant(s): Altman et al.

Serial No.: 10/579,248

International Filing Date: 12 November 2004

For: BIOTIN-FACILITATED TRANSPORT IN GRAM NEGATIVE BACTERIA

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

**CERTIFICATE UNDER 37 C.F.R. 1.10:**

The undersigned hereby certifies that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated below and is addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Jaquelyn K. Torborg*  
*JACQUELYN K TORBORG*

"Express Mail" mailing label number:

EV201878081US

Date of Deposit: 29 December 2006

Respectfully submitted

By

Muetting, Raasch & Gebhardt, P.A.

P.O. Box 581415

Minneapolis, MN 55458-1415

Phone: (612)305-1220

Facsimile: (612)305-1228

Customer Number 26813

29 DECEMBER 2006  
Date

By:

*Kathleen L. Franklin*  
Kathleen L. Franklin

Reg. No. 47,574

Direct Dial (612)305-1873



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Altman et al.

Group Art Unit: 1752

Serial No.: 10/579,248

Examiner: Unassigned

International Filing Date: 12 November 2004

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Title: BIOTIN-FACILITATED TRANSPORT IN GRAM NEGATIVE BACTERIA

**Mail Stop Amendment**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

X **Small entity status is entitled to be asserted in the above-identified application.**

X An itemized return postcard.

— A Petition for Extension of Time for \_\_ month(s). Please charge Deposit Account No. 13-4895 in the amount of \$\_\_ for the required fee.

X An Information Disclosure Statement (2 pgs), copies of 0 applications; 1449 forms (5 pgs); and copies of 44 documents cited on the 1449 forms.

— An Appeal Brief. Please charge Deposit Account No. 13-4895 in the amount of \$\_\_, for the required Appeal Brief filing fee.

— A check in the amount of \$\_\_, representing \_\_.

— Other: \_\_.

— Amendment        No Additional fee is required.        The fee has been calculated as shown:

| Fee Calculation for Claims Pending After Amendment                            |                                    |                             |                                   |                           |                          |
|---|------------------------------------|-----------------------------|-----------------------------------|---------------------------|--------------------------|
|   | Pending Claims after Amendment (1) | Claims Paid for Earlier (2) | Number of Additional Claims (1-2) | Cost per Additional Claim | Additional Fees Required |
| Total Claims  |                                    |                             |                                   | x \$25 =                  |                          |
| Independent Claims  |                                    |                             |                                   | x \$100 =                 |                          |
| One or More New Multiple Dependent Claims Presented? If Yes, Add \$180 Here → |                                    |                             |                                   |                           |                          |
| Total Additional Claim Fees Required  |                                    |                             |                                   |                           |                          |

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

MUETING, RAASCH & GEBHARDT, P.A.

Customer Number: 26813

By: 

Name: Kathleen L. Franklin

Reg. No.: 47,574

Direct Dial: 612-305-1873

Facsimile: 612-305-1228

**CERTIFICATE UNDER 37 CFR §1.10:**

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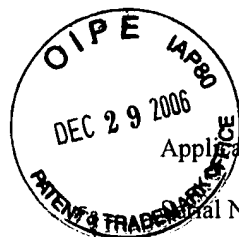
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By: 

Name: Jacquelyn K. Tabor

(SMALL ENTITY TRANSMITTAL UNDER RULE 1.10)



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s):

Altman et al.

Group Art Unit: 1752

Serial No.:

10/579,248

Examiner: Unassigned

International Filing Date: 12 November 2004

Docket No.: 235.00550101

Title:

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☐ Other: \_\_.

☐ Amendment ☐ No Additional fee is required. ☐ The fee has been calculated as shown:

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MUETING, RAASCH & GEBHARDT, P.A.

Customer Number: 26813

By:

Name: Kathleen L. Franklin

Reg. No.: 47,574

Direct Dial: 612-305-1873

Facsimile: 612-305-1228

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1-3-07 IFW 1752

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By:

Name: JACQUELYN K. TOLSON

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**INFORMATION  
DISCLOSURE  
STATEMENT**

Atty. Docket No.: 235.00550101

Serial No.: 10/579,248

Applicant(s): Altman et al.

Confirmation No.: 7812

International Filing Date: 12 Nov 20  
04

Group: 1752

Information Disclosure Statement mailed: December 29, 2006

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initial | Document Number | Date     | Name             | Class | Subclass | Filing Date If<br>Appropriate |
|---------------------|-----------------|----------|------------------|-------|----------|-------------------------------|
|                     | 5,108,921       | 04/28/92 | Low et al.       |       |          |                               |
|                     | 5,416,016       | 05/16/95 | Low et al.       |       |          |                               |
|                     | 5,635,382       | 06/03/97 | Low et al.       |       |          |                               |
|                     | 5,688,488       | 11/18/97 | Low et al.       |       |          |                               |
|                     | 5,820,847       | 10/13/98 | Low et al.       |       |          |                               |
|                     | 5,976,535       | 11/02/99 | Fritzberg et al. |       |          |                               |
|                     | 6,306,993       | 10/23/01 | Rothbard et al.  |       |          |                               |
|                     | 6,451,971 B1    | 09/17/02 | Akiyama et al.   |       |          |                               |
|                     | 6,495,663 B1    | 12/17/02 | Rothbard et al.  |       |          |                               |
|                     | 6,624,140 B1    | 09/23/03 | Abraham et al.   |       |          |                               |
|                     | 2002-0131965 A1 | 09/19/02 | Rothbard et al.  |       |          |                               |
|                     | 2003-0162719 A1 | 08/28/03 | Rothbard et al.  |       |          |                               |
|                     | 2004-0049011 A1 | 03/11/04 | Abraham et al.   |       |          |                               |
|                     | 2005-0136008 A1 | 06/23/05 | Elmaleh et al.   |       |          |                               |
|                     | 2006-0111274 A1 | 05/25/06 | Rothbard et al.  |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initial | Document Number                                      | Date     | Country | Class | Subclass | Translation |    |
|---------------------|--|----------|---------|-------|----------|-------------|----|
|                     |  |          |         |       |          | Yes         | No |
|                     | CA 2 545 679 A1 (in the family<br>of WO 2005/046730) | 05/26/05 | Canada  |       |          |             |    |
|                     | EP 1 036 798 A1                                      | 09/20/00 | EPO     |       |          |             |    |
|                     | EP 1 036 798 B1                                      | 07/16/03 | EPO     |       |          |             |    |
|                     | WO 90/12096 A1                                       | 10/18/90 | WIPO    |       |          |             |    |

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|  |  |                       |          |      |  |  |  |  |
|--|--|-----------------------|----------|------|--|--|--|--|
|  |  | WO 95/31556 A1        | 11/23/95 | WIPO |  |  |  |  |
|  |  | WO 98/52614 A2, A3    | 11/26/98 | WIPO |  |  |  |  |
|  |  | WO 99/06440 A1        | 02/11/99 | WIPO |  |  |  |  |
|  |  | WO 2005/032598 A1     | 04/14/05 | WIPO |  |  |  |  |
|  |  | WO 2005/046730 A2, A3 | 05/26/05 | WIPO |  |  |  |  |

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

| Examiner<br>Initial | Document Description   |
|---------------------|--|
|                     | Altman et al., "S Gene Product: Identification and Membrane Localization of a Lysis Control Protein," <i>J. Bacteriol.</i> , Sept. 1983; 155(3):1130-1137.   |
|                     | Ames et al., "Illicit Transport: The Oligopeptide Permease," <i>Proc. Natl. Acad. Sci. USA</i> , Feb. 1973; 70(2):456-458.   |
|                     | Ames et al., "Simple, Rapid, and Quantitative Release of Periplasmic Proteins by Chloroform," <i>J. Bacteriol.</i> , Dec. 1984; 160(3):1181-1183.  |
|                     | Atherton et al., "Phosphonopeptide Antibacterial Agents Related to Alafosfalin: Design, Synthesis, and Structure-Activity Relationships," <i>Antimicrob. Agents and Chemother.</i> , Dec. 1980; 18(6):897-905. |
|                     | Barak et al., "Specialized Peptide Transport System in <i>Escherichia coli</i> ," <i>J. Bact.</i> , June 1975; 122(3):1200-1207.   |
|                     | Bodanszky et al., "Synthesis of Biocytin-Containing Peptides," <i>J. Am. Chem. Soc.</i> , Jan. 1977; 99(1):235-239.  |
|                     | Bonfils et al., "Uptake by Macrophages of a Biotinylated Oligo- $\alpha$ -deoxythymidylate by Using Mannosylated Streptavidin," <i>Bioconjug. Chem.</i> , July-Aug. 1992; 3(4):277-284.                        |
|                     | Campbell, "Sensitive Mutants of Bacteriophage $\lambda$ ," <i>Virology</i> , May 1961; 14:22-32.   |
|                     | Campbell et al., "A Mutant of <i>Escherichia coli</i> That Requires High Concentrations of Biotin," <i>Proc. Nat. Acad. Sci. USA</i> , March 1972; 69(3):676-680.  |

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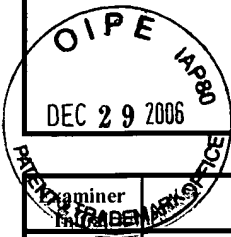
Applicant(s): Altman et al.

Confirmation No.: 7812

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04

Group: 1752

Information Disclosure Statement mailed: December 29, 2006




| Examiner | Initial | Document Description  |
|----------|---------|---|
|          |         | Campbell et al., "Biotin Regulatory ( <i>bir</i> ) Mutations of <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> , June 1980; 142(3):1025-1028.  |
|          |         | Chen et al., "Increased Cellular Uptake of the Human Immunodeficiency Virus-1 Tat Protein after Modification with Biotin," <i>Analytical Biochemistry</i> , May 1995; 227:168-175.  |
|          |         | Dargis et al., "Use of Biotinylated $\beta$ -Lactams and Chemiluminescence for Study and Purification of Penicillin-Binding Proteins in Bacteria," <i>Antimicrobial Agents and Chemotherapy</i> , May 1994; 38(5):973-980.  |
|          |         | Detmers et al., "Kinetics and Specificity of Peptide Uptake by the Oligopeptide Transport System of <i>Lactococcus lactis</i> ," <i>Biochemistry</i> , Nov. 1998; 37:16671-16679.   |
|          |         | Eisenberg et al., "Properties of $\alpha$ -Dehydrobiotin-Resistant Mutants of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> , Apr. 1975; 122(1):66-72.  |
|          |         | Fall et al., "Analysis of bacterial biotin-proteins," <i>Biochim. Biophys. Acta</i> , Feb. 1975; 379(2):496-503.  |
|          |         | Gilleland, Jr., et al., "Ultrastructural and Chemical Alteration of the Cell Envelope of <i>Pseudomonas aeruginosa</i> , Associated with Resistance to Ethylenediaminetetraacetate Resulting from Growth in a $Mg^{2+}$ -Deficient Medium," <i>J. Bacteriol.</i> , Jan. 1974; 117(1):302-311. |
|          |         | Green, "Avidin 3. The Nature of the Biotin-Binding Site," <i>Biochem. Journal</i> , Dec. 1963; 89(3):599-609.   |
|          |         | Guha, "Divergent Orientation of Transcription from the Biotin Locus of <i>Escherichia coli</i> ," <i>J. Mol. Biol.</i> , Feb. 1971; 56:53-62.   |
|          |         | Hofmann et al., "Avidin-Biotin Affinity Columns. General Methods for Attaching Biotin to Peptides and Proteins," <i>J. Am. Chem. Soc.</i> , May 1978; 100(11):3585-3590.  |
|          |         | Ketner et al., "A Deletion Mutation Placing the Galactokinase Gene of <i>Escherichia coli</i> under Control of the Biotin Promoter," <i>Proc. Natl. Acad. Sci. USA</i> , July 1974; 71(7):2698-2702.  |

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|                  | Kinoshita et al., "Proton Motive Force Is Not Obligatory for Growth of <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> , Dec. 1984; 160(3):1074-1077.   |
|                  | Luckey et al., "Iron Uptake in <i>Salmonella typhimurium</i> : Utilization of Exogenous Siderochromes as Iron Carriers," <i>J. Bacteriol.</i> , Sept. 1972; 111(3):731-738.   |
|                  | Mah et al., "Nutritional Requirements of <i>Staphylococcus aureus</i> S-6," <i>Appl. Microbiol.</i> , July 1967; 15(4):866-870.   |
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|                  | Naider et al., "Multiplicity of Oligopeptide Transport Systems in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> , June 1975; 122(3):1208-1215.  |
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|                  | Otvos, Jr. et al., "Interaction between Heat Shock Proteins and Antimicrobial Peptides," <i>Biochemistry</i> , Nov. 2000; 39(46):14150-14159. Available on-line October 21, 2000.   |
|                  | Pai, "Biotin uptake in Biotin Regulatory Mutant of <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> , Oct. 1973; 116(1):494-496.   |
|                  | Pardridge, "Targeting Neurotherapeutic Agents Through the Blood-Brain Barrier," <i>Arch. Neurol.</i> , Jan. 2002; 59:35-40.   |

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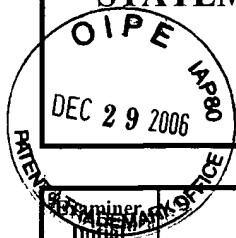
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Payne et al., "Size Restriction on Peptide Utilization in *Escherichia coli*," *J. Biol. Chem*, Dec. 1968; 243(23):6291-6299.

Ramanathan et al., "Targeted PEG-based bioconjugates enhance the cellular uptake and transport of a HIV-1 TAT nonapeptide," *J. Control. Release*, Dec. 2001; 77(3):199-212.

Stolz et al., "Rapid purification of a functionally active plant sucrose carrier from transgenic yeast using a bacterial biotin acceptor domain," *FEBS Letters*, 1995; 377:167-171.

Wermuth et al., "Glossary of Terms used in Medicinal Chemistry (IUPAC Recommendations 1998)," [online]. International Union of Pure and Applied Chemistry, Chemistry and Human Health Division, Medicinal Chemistry Section (1998). [retrieved on 2006-10-05]. Retrieved from the Internet:<URL:www.chem.qmul.ac.uk/iupac/medchem>; 2 pgs.

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